## COVER SHEET FOR AMENDMENT OF POST-TRAVEL SUBMISSION

Date/Time Stamp

SECRETARY OF THE SENATE PUBLIC RECORDS

2019 DEC 11 PM 4: 15

Instructions: Use this form as a cover sheet for any paperwork you may need to submit to the Office of Public Records in order to make your Privately Sponsored Post-Travel Submission complete in accordance with Rule 35. Only complete this form if you need to submit an amendment to a post-travel filing you have already submitted.

#### SUBMIT DIRECTLY TO THE OFFICE OF PUBLIC RECORDS IN 232 HART BUILDING

Name of Traveler: ABBEY, Tristan C.	
	Energy & Natural Resources Committee
Travel Expenses Paid by (List all sources	
Travel Date(s): August 26-29, 2019	
	evised Form RE-2 and personalized itinerary noting trip extension
·	
Purpose of Amendment (describe the rea	son for amending original submission): Revising the name
•	transportation expenses, corrected personalized itinerary.
· •	
	<u> </u>
12/11/2019	TESTAI
(Date)	(Signature of Traveler)

#### Employee Post-Travel Disclosure of Travel Expenses

Employee F	Post-Travel Dis	closure of Travel	Expenses	Date/Time Stamp:
	•	e this form within 30 day blic Records in 232 Hart	_	
In compliance with Rube reimbursed/paid for		_	sures with respect to	travel expenses that have been or wil
	•	orization (Form RE-1), <u>A</u> ertification Form with all		y, invitee list, etc.)
Private Sponsor(s) (list	t all): Stanford Univ	versity		
Travel date(s): Augus	st 26-29, 2019			
	er: Spouse Sing Did Not Incressors in Employee	Child		SE OR DEPENDENT CHILD, ONLY
Dapenses for Employ	Transportation Expenses	Lodging Expenses	Meal Expenses	Other Expenses (Amount & Description)
☑ Good Faith Estimate □ Actual Amount	\$599.45 (airfare) \$60 ground transportation \$659.45 Total	\$600 (\$200/night)	\$218	None
Expenses for Accomp	panying Spouse or D	ependent Child (if applica	able):	
	Transportation Expenses	Lodging Expenses	Meal Expenses	Other Expenses (Amount & Description)
☐ Good Faith Estimate ☐ Actual Amount				
Person	alized itinerary is a three days of sem	vents attended. See Senate attached. An intensive	program for Con	gressional staff
(5) 2/11/2019 (5) (Date)	<u> </u>	PISTAN C  name of traveler)		(Signature of traveler)

<sup>(2)</sup>TO BE COMPLETED BY SUPERVISING MEMBER/OFFICER:

I have made a determination that the expenses set out above in connections with travel described in the Employee Pre-Travel Authorization form, are necessary transportation, lodging, and related expenses as defined in Rule 35.

(Signature of Supervising Senator/Officer)

(Revised 1/3/11)

# EMPLOYEE PRE-TRAVEL AUTHORIZATION

Date/Time Stamp:

Form RE-1

<u>Pre-Travel Filing Instructions</u>: Complete and submit this form at least 30 days prior to the travel departure date to the <u>Select Committee on Ethics</u> in <u>SH-220</u>. Incomplete and late travel submissions will <u>not</u> be considered or approved. This form <u>must</u> be typed and is available as a fillable PDF on the Committee's website at ethics.senate.gov. Retain a copy of your entire pre-travel submission for your

required post-travel disclosure.

(Revised 10/19/15)

Abbey, Tristan Name of Traveler: Senate Energy & Natural Resources Committee Employing Office/Committee: Private Sponsor(s) (list all): Stanford University, Hoover Institution Travel date(s): August 26-29, 2019 Note: If you plan to extend the trip for any reason you must notify the Committee. Destination(s): Stanford, CA Explain how this trip is specifically connected to the traveler's official or representational duties: As a Senior Professional Staff Member, my official duties include oversight of all aspects of the Department of Energy and all strategic issues associated with energy and natural resources. These issues include the DOE's new Office of Cybersecurity, Energy Security, and Emergency Response and its Artificial Intelligence program, which includes grants and research funding for supercomputers, machine learning, etc. This trip will provide professional development to better conduct oversight of these programmatic areas in which the DOE is active. Name of accompanying family member (if any): N/A Relationship to Employee: Spouse Child I certify that the information contained in this form is true, complete and correct to the best of my knowledge: (Signature of Employee) TO BE COMPLETED BY SUPERVISING SENATOR/OFFICER (President of the Senate, Secretary of the Senate, Sergeant at Arms, Secretary for the Majority, Secretary for the Minority, and Chaplain): Tristan Abbey (Print Traveler's Name) an employee under my direct supervision, to accept payment or reimbursement for necessary transportation, lodging, and related expenses for travel to the event described above. I have determined that this travel is in connection with his or her Coduties as a Senate employee or an officeholder, and will not create the appearance that he or she is using public office for private gain. I have also determined that the attendance of the employee's spouse or child is appropriate to assist in the representation of the Senate. (signify "yes" by checking box)

Form RE-1

#### **EMPLOYEE PRE-TRAVEL AUTHORIZATION**

<u>Pre-Travel Filing Instructions</u>: Complete and submit this form at least 30 days prior to the travel departure date to the Select Committee on Ethics in SH-220. Incomplete and late travel submissions will <u>not</u> be considered or approved. This form <u>must</u> be typed and is available as a fillable PDF on the Committee's website at ethics.senate.gov. Retain a copy of your entire pre-travel submission for your required post-travel disclosure.

(Rev sed 10/19/15)

Name of Traveler:	Abbey, Tristan
Employing Office/Committee:	Senate Energy & Natural Resources Committee
Private Sponsor(s) (list all): Stanford	University, Hoover Institution
Travel date(s): August 26 thru Aug	
Note: If you plan to extend the	rip for any reason you <u>must</u> notify the Committee.
Destination(s): Stanford, CA	
Explain how this trip is specifically co	nected to the traveler's official or representational duties:
Professional development to better cond of Energy and its National Laboratories	ict oversight of cybersecurity and artificial intelligence, two areas in which the Department re active.
Name of accompanying family member Relationship to Employee: $\square$ Spouse I certify that the information contained $\frac{7}{z^3//9}$	
(Date)	(Signature of Employee)
TO BE COMPLETED BY SUPERVISING Secretary for the Majority, Secretary for the	SENATOR/OFFICER (President of the Senate, Secretary of the Senate, Sergeant at Arms, Minority, and Chaplain):
I, Chairman Lisa Murkows	Tristan Abbey
(Print Senator's/Officer's Nan	
related expenses for travel to the event	on, to accept payment or reimbursement for necessary transportation, lodging, and described above. I have determined that this travel is in connection with his or her cholder, and will not create the appearance that he or she is using public office for
I have also determined that the attenda of the Senate. (signify "yes" by checking	
7-23-19	(Signature of Supervising Senator/Officer)
(Date)	(Signature of Supervising Senator/Officer)



# Cyber and Artificial Intelligence Boot Camp August 26-29, 2019

The Hoover Institution, Annenberg Conference Room 105, Lou Henry Hoover Building 434 Galvez Mall, Stanford, CA 94305

#### **LEADERSHIP**

#### **Andrew Grotto**

Program Director, Program on Geopolitics, Technology, and Governance, Stanford Cyber Policy Center, Freeman Spogli Institute

William J. Perry International Security Fellow, Center for International Security and Cooperation (CISAC)

Research Fellow, Hoover Institution

#### Dr. Herb Lin

Senior Research Scholar for Cyber Policy and Security, Center for International Security and Cooperation (CISAC)

Hank J. Holland Fellow in Cyber Policy and Security, Hoover Institution
Chief Scientist Emeritus, Computer Science and Telecommunications Board, National
Academies

#### **CONTACTS**

#### Danielle Jablanski, djablanski@stanford.edu +1(650) 725-4839

Cyber Program Manager, Program on Geopolitics, Technology, and Governance, Stanford Cyber Policy Center, Freeman Spogli Institute

Russell Wald, rwald@stanford.edu +1 (202) 760-3204

Senior Manager for External Affairs

Hoover Institution, Stanford University

Arrived on August 25 in order to attend to official Committee business on Stanford University's campus the morning of August 26

#### DAY 1 (Monday, August 26): Cyber Offense and Defense

Morning - Stanford University; Attended to official Committee business

#### 11:30 am - 12:00 pm INTRODUCTION AND PROGRAM OVERVIEW

#### Faculty:

- Andrew Grotto, William J. Perry International Security Fellow, Center for International Security and Cooperation (CISAC), Research Fellow, Hoover Institution
- Dr. Herb Lin, Senior Research Scholar, CISAC; Hank J. Holland Fellow, Hoover Institution

#### 12:00 pm - 12:30 pm LUNCH KEYNOTE & WELCOME

#### Opening Remarks:

H.R. McMaster, Fouad and Michelle Ajami Senior Fellow, Hoover Institution; Former assistant to the president for National Security Affairs; Retired Lieutenant General, U.S. Army

#### 12:30 pm - 1:30 pm THINKING LIKE AN ATTACKER

#### Faculty:

- Dr. Greg Conti, Senior Security Strategist, IronNet Cybersecurity
- Dr. Herb Lin, Stanford University
- **Andrew Grotto**, Stanford University (Moderator)

Effectively combating any adversary requires understanding the ways in which that adversary thinks. Cybersecurity adversaries — from state agents seeking to disable military systems to hacktivists seeking to make a political point — share a security mindset: a predilection for examining the ways in which the security of a system can be circumvented or penetrated. Whereas good engineering is about how a system can be made to work, the security mindset involves thinking about how some aspect of a system can be made to fail. Understanding this mindset is the first step towards designing sound cybersecurity solutions.

Assignment: While in transit to the course location in Palo Alto, conduct a thought experiment for bringing an item prohibited by TSA regulations onto the airplane.

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<u>Learning Objectives</u>: Why defense is more difficult than offense and what makes ongoing offense-defense competition inevitable.

1:30 pm - 1:45 pm BREAK

#### 1:45 - 3:00 pm/KEYNDJEGiGURRENT/eEHREAT LANDSCAPE

- Sean Kanuck, Visiting Fellow, Hoover Institution; Former National Intelligence
  Officer for Cyber Issues, Office of the Director of National Intelligence
- Dr. Herb Lin, Stanford University (Moderator)

Threat actors and their specific activity signatures, global hot spots and trends, are analyzed daily by various security agencies, governments, and organizations. This keynote will direct our attention to today's principal threat actors, providing a bird's eye view of the threat landscape, current trends and capabilities, future outlook of malicious cyber activity, and seeks to bust certain myths sometimes circulated or recounted incorrectly about cyber operations. Speakers will also provide first-hand examples of experiences tracking threats and bad actors, and share insights about working in this field.

3:00 pm 3:15 pm BREAK

3:15 pm - 4:15 pm THREATS TO CYBERSECURITY

#### Faculty:

- Carey Nachenberg, Chief Scientist, Chronicle; Adjunct Assistant Professor of Computer Science, UCLA
- Dr. Tom Berson, Visiting Scholar, Stanford CISAC; Advisory Board Member, Salesforce; Founder, Anagram Laboratories
- Dr. Herb Lin, Stanford University (Moderator)

Cybersecurity compromises can take a variety of forms and occur for a variety of reasons. This session examines various known techniques and vulnerabilities in information technology that allow them to happen, painting a picture of a well-known cybersecurity theme: offense dominance. This session will include forensic case studies that illuminate the spectrum of the attack surface, key challenges, and trends.

<u>Learning Objectives</u>: Security-relevant principles of information technology; types of compromises; inherent vulnerabilities of information technology; the hidden complexity of cyberspace; anatomy of security compromises; and the spectrum of threats to cybersecurity.

#### 4:15 pm - 4:30 pm BREAK

#### 4:30 pm - 5:30 pm DINNER: OFFENSIVE DIMENSIONS OF CYBERSECURITY CHALLENGES

#### Faculty:

- Dr. Herb Lin, Stanford University
- Jason Kichen, Vice President, Advanced Security Concepts, eSentire
- Andrew Grotto, Stanford University (Moderator)

Offensive activities — including those conducted for espionage and attack purposes — serve a variety of national goals. This discussion will summarize the operational and strategic requirements, intelligence needs, organizational structure and policy considerations necessary for offensive cyber operations.

<u>Learning Objectives</u>: The role of offensive operations in cyberspace for improving the nation's cybersecurity posture, signaling, and other purposes; the differences between penetration and exploitation and their important distinctions; the scope and nature of U.S. command and control of offensive operations in cyberspace.

-5:30-pm--6:00 pm BREAK -6:00 pm - 8:30 pm HOSPITAL RANSOMWARE SIMULATION

The hospital has been the victim of a cyber-attack in the form of ransomware which successfully encrypts 250,000 files and holds at least one system hostage, demanding a ransom payment in Bitcoin (BTC) in return for a decryption key which will unlock its systems and restore access and functionality to the system. The hospital has a timeline of 72 hours to pay the ransom before their files become permanently encrypted and inaccessible, or are moved off their network.

Subject matter experts will act as the hospital's Chief Executive Officer and Chief Strategy Officer during the simulation, and staffers will be divided into teams to assist with directing action items, press releases, and critical decisions on how to manage the attack and response. Each team will have a coach aiding their organization and strategy. All names and information will be fictional, however, the simulated attack is based on previous real life scenarios. The information made available to participants is subject to change throughout the simulation. At the end of the exercise, teams will present their decision making processes to the hospital's CEO and Board of Trustees, and debrief on what it is like to face this type of cyber scenario in the real world.

#### DAY 2 (Tuesday, August 27): Technical & Nontechnical Approaches

#### 8:30 am - 9:00 am BREAKFAST AND DAY 1 DEBRIEF

- Andrew Grotto, William J. Perry International Security Fellow, Center for International Security and Cooperation (CISAC), Research Fellow, Hoover Institution
- Dr. Herb Lin, Senior Research Scholar, CISAC; Hank J. Holland Fellow, Hoover Institution

#### 9:00 am - 11:00 am HANDS ON HACK LAB

#### Faculty:

 Alex Stamos, Visiting Scholar, Hoover Institution; Adjunct Professor, Stanford University; Director, Internet Observatory, Cyber Policy Center, Freeman Spogli Institute

Stamos' course provides an introduction to the most common types of attacks used in cybercrime and cyberwarfare. As a long-time security practitioner, he covers the basics of an area of technology and how it has been misused. Participants will complete a lab session from his Stanford course in which they will be guided through attacking a known insecure system using techniques and tools seen in the field.

Participants will be required to bring a Windows or Mac laptop and will be provided with basic information for the exercise 2 weeks prior to the session. No computer science background is necessary for this session.

11:00 am - 11:15 pm BREAK

11:15 am - 12:15 pm LUNCH: CYBER RISK, ECONOMICS, AND ORGANIZATIONAL DIMENSIONS OF CYBERSPACE

#### Faculty:

- **Dr. Tyler Moore**, Tandy Assistant Professor of Cyber Security and Information Assurance, University of Tulsa
- Dr. Greg Falco, Security Researcher, Stanford CISAC
- Dr. Herb Lin, Stanford University (Moderator)

Known cybersecurity measures are often not fully adopted due to a variety of economic and organizational factors. These factors are non-technical in nature and often underappreciated by technical and policy communities. Economics describe the incentives that apply to cyber defenders and adversaries, including the nature of cybersecurity market failures and the ability to handle collective action problems. The insurance sector is working to provide accurate and adequate coverage for this market. This session examines how these factors often discourage the adoption of sound security practices.

<u>Learning Objectives</u>: The importance of economic and organizational factors of cybersecurity and why they are often overlooked in efforts to improve cybersecurity; how government action might help to address non-technical factors that diminish the nation's cybersecurity posture.

#### 12:15 pm - 12:30 pm BREAK

12:30 pm - 1:30 pm PRIVACY & SECURITY FOR CONSUMERS, CUSTOMERS, AND CRITICAL INFRASTRUCTURE

#### Faculty:

- Robert Chesney, Associate Dean and Charles I. Francis Professor, University of Texas School of Law; Director, Robert S. Strauss Center for International Security and Law
- Ted Gizewski, Vice President, Product Legal, Salesforce
- Andrew Grotto, Stanford University (Moderator)

Privacy and security risks manifest differently in different business sectors. They also share important interdependencies that require integrated risk management and policy-making strategies.

<u>Learning objectives</u>: Gaining insight into how privacy and security risks affect different sectors, how risk management strategies must be tailored to the risk environment, and why an integrated approach to managing privacy and security risks is imperative.

1:30 pm - 1:45 pm BREAK 1:45 pm - 2:45 pm INTERNATIONAL LAW AND CYBERSECURITY

#### Faculty:

- Dr. Tess Bridgeman, Senior Fellow, Center on Law and Security, NYU
- Dr. Herb Lin, Stanford University
- Andrew Grotto, Stanford University (Moderator)

Technological change has far outpaced updates to laws and regulatory frameworks, and will almost certainly continue to do so in the future. This lag consequentially challenges Congress to craft legislation appropriate for future technologies. Furthermore, nations have cooperative and competitive (and

sometimes adversarial) interests that play out in cyberspace, devoid of national borders, giving an international dimension to every cybersecurity and policy challenge.

<u>Learning Objectives</u>: The implicit technological assumptions of existing cybersecurity laws; what problems arise in applying existing international law to technological circumstances not contemplated at the time of initial passage. These include the law of armed conflict, human rights, proposals for internet governance; and different non-governmental organizations that affect the design and operation of the Internet.

#### 2:45 pm - 3:45 pm FUNDAMENTALS OF DEFENSE FOR CYBERSECURITY

#### Faculty:

- Dr. Irving Lachow, Visiting Fellow, Hoover Institution; Affiliate, CISAC; Portfolio Manager, International Cybersecurity, MITRE
- Andrew Grotto, Stanford University
- Dr. Herb Lin, Stanford University (Moderator)

Cybersecurity can be a deeply technical subject, especially in how cybersecurity solutions are implemented, a few fundamental principles underlie most solutions. This session takes a deep dive into the principles of improving cybersecurity and how they fit together. These include reducing reliance on information technology, detecting cybersecurity compromises, and blocking and limiting the impact of compromise. Additional topics include authentication, access control, forensics, recovery, containment, resilience, and active defense.

<u>Learning Objectives</u>: The value of these fundamental principles of cybersecurity, understanding interdependencies, and how to use fundamentals and understanding collectively to improve security.

3:45 pm - 4:00 pm BREAK

### 4:00 pm - 5:00 pm CYBER ENABLED INFORMATION WARFARE AND INFLUENCE OPERATIONS

#### Faculty:

- Dr. Rosanna Guadagno, Director, Information Warfare Working Group, Stanford University
- Dr. Herb Lin, Stanford University
- Andrew Grotto, Stanford University (Moderator)

Cyber-enabled information warfare is fundamentally different than cyber war and cyber conflict, at least as the latter are generally understood today in the policy world. Cyber war and cyber conflict target information and information technology systems, whereas cyber-enabled information warfare targets human minds. Russia did not "hack" Facebook and YouTube and Twitter by penetrating their security—

it used those platforms exactly as they were designed to be used. This session delves into these differences, placing the emphasis on the psychological vulnerabilities of people that the Russians (and other institutional users of social media) exploit for gain.

<u>Learning Objectives</u>: Understanding the fundamental differences between cyber war and cyber-enabled information warfare; the psychology underlying cyber-enabled information warfare; and the present inadequacies of the U.S. government in coping with such warfare.

5:00 pm - 6:30 pm BREAK

#### 6:30 pm - 8:30 pm KEYNOTE RECEPTION/DINNER - ARTIFICIAL INTELLIGENCE

- Reid Hoffman, Co-founder and former Executive Chairman, LinkedIn
- Ambassador Michael McFaul, Senior Fellow, Freeman Spogli Institute for International Studies; Senior Fellow, Hoover Institution, Stanford University (Moderator)

Artificial intelligence technologies are augmenting human capability and efficiency, changing the way we think about and interact with information, and creating new governance challenges and opportunities for policy makers and business leaders. Please join two distinguished thought leaders to discuss critical issues facing the future of human-centered AI development, innovation, and governance.

### DAY 3 (Wednesday, August 28): Industry Voices, and the Future of Artificial Intelligence

#### 9:00 am - 9:30 am BREAKFAST AND DAY 2 DEBRIEF

- Andrew Grotto, William J. Perry International Security Fellow, Center for International Security and Cooperation (CISAC), Research Fellow, Hoover Institution
- Dr. Herb Lin, Senior Research Scholar, CISAC; Hank J. Holland Fellow, Hoover Institution

#### 9:30 am - 10:45 am INDUSTRY PERSPECTIVES PANEL

- Dr. Sameer Bhalotra (Chair), Co-Founder and CEO, ActZero.ai; Affiliate, CISAC; Senior Associate of the Strategic Technologies Program, CSIS; former Senior Director for Cybersecurity, National Security Council
- Frank Chen, Partner, Andreessen Horowitz
- Michelle Finneran Dennedy, Vice President, Chief Privacy Officer, Cisco
- Rick Howard, Chief Security Officer, Palo Alto Networks
- Dr. Mark Rosekind, Chief Safety Innovation Officer, Zoox

Market forces have a critical role in enhancing or weakening security and privacy considerations. This session examines how such forces play out at the level of the individual firm and incorporate the views and concerns of the business community. Silicon Valley senior executives and engineers will give their "ground truths" about the security problems facing the private sector.

<u>Learning Objectives</u>: Various private sector perspectives on technology and relations beyond Silicon Valley from technology firms that support innovative efforts for providing IT-based products and services with attention to cybersecurity and AI.

10:45 am - 11:00 am BREAK

#### 11:00 am - 12:00 pm FUNDAMENTALS OF AI AND MACHINE LEARNING

#### Faculty:

- Dr. Emma Brunskill, Assistant Professor, Computer Science, Stanford University;
   Stanford AI for Human Impact Lab
- **Dr. Jeff Clune**, Harris Associate Professor, Computer Science, University of Wyoming; Senior Research Manager, Uber Al Labs
- Andrew Grotto, Stanford University, (Moderator)

Machine learning and the algorithms that fuel its applications have important principle foundations including deep learning neural networks, increased complexity in evolving neural networks, and robotics developments which are increasingly intelligent, adaptable, and resilient. Also known as reinforcement learning, algorithms can learn from experience to make decisions or provide diagnostics in applications such as educational software, healthcare decision making, robotics, or people-facing applications. This session will explain the basic elements of machine learning, and the typical environment for building and testing neural networks and reinforcement learning.

<u>Learning Objectives:</u> Practical applications and limits of machine learning, the broad strokes of development of deep neural networks, and the overall veracity of both development and applications of this technology. Faculty will also speak to the trajectory of the technology, and any risks it may pose from a technical perspective.

#### 12:15 pm - 1:15 pm KEYNOTE LUNCH: ARTIFICIAL INTELLIGENCE AND SAFETY

- **Dr. Fei-Fei Li,** Co-Director, Stanford Human-Centered Artificial Intelligence Initiative, Stanford University; Professor, Computer Science, Stanford University
- Mykel Kochenderfer, Assistant Professor of Aeronautics and Astronautics, Stanford University; Director, Stanford Intelligent Systems Laboratory
- Andrew Grotto, Stanford University (Moderator)

Building robust decision making systems is challenging, especially for safety critical systems such as unmanned aircraft and driverless cars. Decisions must be made based on imperfect information about the environment and with uncertainty about how the environment will evolve. In addition, these systems must carefully balance safety with other considerations, such as operational efficiency. Typically, the space of edge cases is vast, placing a large burden on human designers to anticipate problem scenarios and develop ways to resolve them.

<u>Learning Objectives</u>: We will discuss ways in which artificial intelligence can be applied to the design of these safety critical systems. This approach has the potential to significantly improve robustness of these systems, but there are two major challenges. The first is in ensuring computational tractability, and the

other is establishing trust in their correct operation when deployed in the real world. We will outline some methodologies for addressing these challenges.

1:15 pm - 1:30 pm BREAK 1:30 pm - 2:30 pm ETHICS AND GOVERNANCE FOR AI

#### Faculty:

- Dr. John Villasenor, Visiting Fellow, Hoover Institution; Professor of Electrical Engineering, Law, Public Policy, and Management, University of California Los Angeles
- Dr. Patrick Lin, Director, Emerging Sciences Group, California Polytechnic State University
- Dr. Herb Lin, Stanford University (Moderator)

Advances in AI are raising a set of fundamentally important questions that go well beyond technology. This session will explore key AI ethics and governance issues, such as the nuances and challenges of addressing questions like: What should the rules be when machines make decisions with ethical implications, and who writes those rules? How can the issue of bias in AI be addressed?

<u>Learning Objectives:</u> The sorts of governance structures that can best ensure a climate of innovation in the AI ecosystem while also protecting against its potential misuses. What special issues are raised by AI in defense and security specifically.

#### 2:40 pm - 3:50 pm HOOVER TOWER AND ARCHIVES TOUR

Founded by Herbert Hoover in 1919, the Hoover Institution Library & Archives are dedicated to documenting war, revolution, and peace in the twentieth and twenty-first centuries. With nearly one million volumes and more than six thousand archival collections from 171 countries, Hoover supports a vibrant community of scholars and a broad public interest in the meaning and role of history.

#### 4:15 pm - 5:30 pm VISIT TO CENTER FOR AUTOMOTIVE RESEARCH AT STANFORD (Staffers

#### Faculty:

- Dr. Stephen Zoepf, Executive Director, Center for Automotive Research, Stanford University
- Bryan Casey, Lecturer in Law, Stanford University
- Marco Pavone, Associate Professor, Aeronautics and Astronautics, Stanford University

The Center for Automotive Research at Stanford (CARS) brings together researchers, students, industry, government and the community to enable a future of human-centered mobility. Understanding how people and machines work together has never been so important than when building vehicles of the

future. CARS supports educational experiences for students, infrastructure for research and events that bring students and campus researchers together with industry professionals and the broader community. Researchers and vehicles affiliated with CARS are housed at the Automotive Innovation Facility, which houses the Volkswagen Automotive Innovation Lab (often referred to as 'VAIL'), a state-of-the-art vehicle research facility where interdisciplinary teams can work on projects that move vehicle human-centered mobility forward.

Participants will visit CARS' Automotive Innovation Facility and hear from researchers on the cutting edge of the development of autonomous vehicles. Experts will brief the group on trends in the field, ongoing legal and ethical debates, and provide a tour of the facility showcasing vehicles and a driving simulator used for research.

6:00 pm - 8:00 pm DINNER AND REFLECTIONS

Coupa Café 198 Junipero Serra Blvd, Stanford, CA, 94305

Thursday, August 29: Shuttle will arrive to Schwab Residential Hall at 6:30am to depart for San Francisco International Airport

9:30 a.m. - Depart on Group Flight: United Airlines 516 to Dulles International Airport

#### PRIVATE SPONSOR TRAVEL CERTIFICATION FORM

This form must be completed by any private entity offering to provide travel or reimbursement for travel to Senate Members, officers, or employees (Senate Rule 35, clause 2). Each sponsor of a fact-finding trip must sign the completed form. The trip sponsor(s) must provide a copy of the completed form to each invited Senate traveler, who will then forward it to the Ethics Committee with any other required materials. The trip sponsor(s) should NOT submit the form directly to the Ethics Committee. Please consult the accompanying instructions for more detailed definitions and other key information.

The Senate Member, officer, or employee MUST also provide a copy of this form, along with the appropriate travel authorization and reimbursement form, to the Office of Public Records (OPR), Room 232 of the Hart Building, within thirty (30) days after the travel is completed.

1.	Stanford University (Partnership between Stanford's Sponsor(s) of the trip (please list all sponsors):
	Hoover Institution, Freeman Spogli Institute, Human Centered Artificial Intelligence Institute)
2.	Description of the trip: An Intensive program for Congressional staff which consists of three days of
	seminars, simulations, and keynote presentations.
3.	Dates of travel: August 26 - 29, 2019
4.	Place of travel: Stanford University, Stanford, CA
5.	Name and title of Senate invitces: See attached list
6.	I certify that the trip fits one of the following categories:  (A) The sponsor(s) are not registered lobbyists or agents of a foreign principal and do not retain or
	employ registered lobbyists or agents of a foreign principal and no lobbyist or agents of a foreign principal will accompany the Member, officer, or employee at any point throughout the trip.  — OR —
	(B) The sponsor or sponsors are not registered lobbyists or agents of a foreign principal, but retain or employ one or more registered lobbyists or agents of a foreign principal and the trip meets the requirements of Senate Rule 35.2(a)(2)(A)(i) or (ii) (see question 9).
7,	I certify that the trip will not be financed in any part by a registered lobbyist or agent of a foreign principal.
	- AND -
	I certify that the sponsor or sponsors will not accept funds or in-kind contributions earmarked directly or indirectly for the purpose of financing this specific trip from a registered lobbyist or agent of a foreign principal or from a private entity that retains or employs one or more registered lobbyists or agents of a foreign principal.
8,	I certify that:
	The trip will not in any part be planned, organized, requested, or arranged by a registered lobbyist or agent of a foreign principal except for de minimis lobbyist involvement.  - AND -
	The traveler will not be accompanied on the trip by a registered lobbyist or agent of a foreign principal
	except as provided for by Committee regulations relating to lobbyist accompaniment (see question 9).

9.	USE ONLY IF YOU CHECKED QUESTION 6(B)  I certify that if the sponsor or sponsors retain or employ one or more registered lobbyists or agents of a foreign principal, one of the following scenarios applies:
	(A) The trip is for attendance or participation in a one-day event (exclusive of travel time and one overnight stay) and no registered lobbyists or agents of a foreign principal will accompany the Member, officer, or employee on any segment of the trip.  - OR -
	(B) The trip is for attendance or participation in a one-day event (exclusive of travel time and two overnight stays) and no registered lobbyists or agents of a foreign principal will accompany the Member, officer, or employee on any segment of the trip (see questions 6 and 10). —OR ←
	(C) The trip is being sponsored only by an organization or organizations designated under § 501(c)(3) of the Internal Revenue Code of 1986 and no registered lobbyists or agents of a foreign principal will accompany the Member, officer, or employee at any point throughout the trip.
10.	USE ONLY IF YOU CHECKED QUESTION 9(B)  If the trip includes two overnight stays, please explain why the second night is practically required for Senate invitees to participate in the travel:
	·
11.	An itinerary for the trip is attached to this form. I certify that the attached itinerary is a detailed (hourby-hour), complete, and final itinerary for the trip.
12.	Briefly describe the role of each sponsor in organizing and conducting the trip:
	Stanford University soley planned all aspects of the trip including topics discussed, travel/accommodation
	logistics, and required paperwork. Stanford staff will also be responsible for traveling with Congressional
	staff and managing logistics for the duration of the trip.
13.	Briefly describe the stated mission of each sponsor and how the purpose of the trip relates to that mission: Stanford University is a 501(C)3 institution of higher education that seeks to promote the public welfare by
	excercising an influence in behalf of humanity and civilization, through teaching and rigorous scholarship.
14.	Briefly describe each sponsor's prior history of sponsoring congressional trips:
	Stanford University has sponsored several trips for Congressional staff. Specifically, this is the fourth
	Cyber Boot Camp for Congressional staff organized by Stanford. The most recent one was August 2017
	and had a similar format to this trip.

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Congressional staff, i	Executive pranch officia	ls, academics and men	nbers of the public.	Additionally
Stanford educates no	umerous undergad and	graduate students with	n the university.	
Total Expenses for E	ach Participant:			
· · · · · · · · · · · · · · · · · · ·	Transportation Expenses	Lodging Exponses	Meal	Other
Good Faith estimate  Actual Amounts	\$599.45 Round trip alriare \$60 Ground transportation \$659.45 Total	\$600 (\$200/nlght)	\$218	None
participation or b) the congressional participation	rip involves an event the trip involves an event pation:  event that is arranged/o	that is arranged or orga	mized <i>specifically</i> v	with regard to
participation.				
Reason for selecting	the location of the even	t or trip		
IN order to have a sl	gnificant number of Cal	ifornia-based faculty pa	rticipate in the ever	nt, we are hosti
it at the Stanford Uni	versity campus			
	f hotel or other lodging	facility:		
Name and location o Schwab Residential	Center, 680 Serra Stre	et, Stanford CA 94305		
Schwab Residential  Reason(s) for selective		g facility:	d University. It is in	close proximity

Describe how the daily expenses for lodging, meals, and other expenses provided to trip participants compares to the maximum per diem rates for official Federal Government travel:
Lodging expenses are less than the federal per diem for Stanford, CA. Meal expenses are less than the
federal per diem for Stanford, CA.
Describe the type and class of transportation being provided. Indicate whether coach, business-class or first class transportation will be provided. If first-class fare is being provided, please explain why first-class travel is necessary:
Stanford University will provide economy class round trip airfare between Washington, DC and San
Francisco, CA, and ground transportation in California.
I represent that the travel expenses that will be paid for or reimbursed to Senate invitees do not include expenditures for recreational activities, alcohol, or entertainment (other than entertainment provided to all attendees as an integral part of the event, as permissible under Senate Rule 35).
List any entertainment that will be provided to, paid for, or reimbursed to Senate invitees and explain why the entertainment is an integral part of the event:
None
I hereby certify that the information contained herein is true, complete and correct. (For trips involving more than one sponsor, you must include a completed signature page for each additional sponsor):  Signature of Travel Sponsor:
Signature of Travel Sponsor: Active Color Manager, External Affairs  Name and Title: Russell Wald, Senior Manager, External Affairs
Name of Organization; Stanford University
Address: 434 Galvez Mall, Stanford, CA 94305
Telephone Number: 202.760.3200
Fax Number: 202.760.3191
E-mail Address: rwald@stanford.edu

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First Name	Last Name	Job Title	Current Office or Committee	Chamber
Tristan	Abbey	Senior Professional Staff	Energy & Natural Resources Committee	Senate
Wendy	Anderson	Chief of Staff		House
Karolina	Arias	Policy Advisor and Minority Staff Director	Senator Van Hollen Subcommittee on Securities, Investment, and Insurance	Senate
Virgilio	Barrera	Legislative Director	Senator Martin Heinrich	Senate
Charles	Carithers	Professional Staff Member	Committee on Homeland Security	House
Laura	Fullerton	Deputy Staff Director	House Foreign Affairs	House
Jessica	Hagens-Jorda	Hagens-Jorda Defense and Foreign Policy Advisor	Rep. Jim Himes (HPSCI)	House
Katherine	Harris		e on Intelligence	Senate
John Micah	Heinemann	Counsel	and Investigations Subcommittee	House
Sunmin	Kim	Technology Policy Advisor		Senate
Jacqueline	Maffucci		Homeland Security and Government Affairs Committee	Senate
Svetlana	Matt	sistant	((	House
Sarah	Moxiey	Staff Director	Committee on Homeland Security, Subcommittee on Cybersecurity, infrastructure Protection and Innoval	House
Jacob	Olidort			Senate
Cherilyn	Pascoe	aff Member		Senate
William	Payne		Sen. Ben Sasse/Senate Judiciary Committee	Senate
Asad	Ramzanali	Senior Advisor, Technology Policy		House
John	Riordan	Professional Staff Member; Strategic force; Senate Armed Services Committee		Senate
Michael	Seeds	Deputy Chief of Staff & Legislative Director		House
Alicia	Smith	Counsel	Committee on Homeland Security	House
Stephen	Smith	Senior Policy Advisor	Senator Angus King	Senate
Katherine	Tai	Trade Subcommittee	Ways and Means	House
Clinton	Trocchio	Ş	Committee on Appropriations	Senate
Matthew	Williams			Senate
Robert	Winkler	Professional Staff Member	ices Committee	Senate